Habitat Grouping: Subtidal

Macrogroup Subtidal Mud Bottom

Habitat System Submerged Aquatic Vegetation

Habitat System Unvegetated

Macrogroup Subtidal Sand Bottom

Habitat System Submerged Aquatic Vegetation

Habitat System Unvegetated

Macrogroup Subtidal Mollusc Reefs

Habitat System Gastropod Reef

Habitat System Mussel Reef

Habitat System Oyster Reef

Macrogroup Subtidal Bedrock Bottom

Habitat System Bedrock

Habitat System Erect Epifauna

Habitat System Kelp Bed

Macrogroup Subtidal Coarse Gravel Bottom

Habitat System Coarse Gravel

Habitat System Erect Epifauna

Habitat System Kelp Bed

Macrogroup Subtidal Pelagic (Water Column)

Habitat System Confined Channel

Habitat System Nearshore

Habitat System Offshore

Habitat System Upwelling Zones

Species Associated with this Grouping	Total SGCN: 1: 18 2: 48 3: 13	Total SGCN (primary habitat): 1: 11 2: 41 3: 9
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Class	Actinopterygii (Ray-finned Fishes)	SGCN Category
Species	Acipenser brevirostrum (Shortnose Sturgeon)	1
Species	Acipenser oxyrinchus (Atlantic Sturgeon)	1
Species	Alosa aestivalis (Blueback Herring)	1
Species	Alosa pseudoharengus (Alewife)	2
Species	Alosa sapidissima (American Shad)	1
Species	Ammodytes americanus (American Sand Lance)	3
Species	Anarhichas lupus (Atlantic Wolffish)	2
Species	Anguilla rostrata (American Eel)	2
Species	Brosme brosme (Cusk)	2
Species	Gadus morhua (Atlantic Cod)	1
Species	Melanogrammus aeglefinus (Haddock)	1
Species	Morone saxatilis (Striped Bass)	2
Species	Osmerus mordax (Rainbow Smelt)	1
Species	Pseudopleuronectes americanus (Winter Flounder)	2
Species	Salmo salar (Atlantic Salmon)	1
Species	Salvelinus fontinalis (Brook Trout)	3
Species	Thunnus thynnus (Atlantic Bluefin Tuna)	2
Class	Anthozoa (Corals, Sea Pens, Sea Fans, Sea Anemones)	SGCN Category

Habitat Grouping: Subtidal

Species Asterias forbesi (Forbes's Starlish) 2 Species Asterias rubens (Common Sea Star) 2 Species Crossaster papposus (Common Sun Star) 2 Species Solaster endeca (Purple Sunstar) 2 Species Stephanasterias albula (White Sea Star) 2 Class Aves (Birds) SGCN Catego Species Alca torda (Razorbill) 2 Species Ardea herodias (Great Blue Heron) 2 Species Ardythya morila (Greater Scaup) 2 Species Alca torda (Razorbill) 3 Species Bucephala islandica (Barrow's Goldeneye) 1 Species Bucephala islandica (Barrow's Goldeneye) 1 Species Chroicocephalus shirida (Barrow's Goldeneye) 1 Species Chroicocephalus shirida (Barrow's Goldeneye) 1 Species Fratercula arctiza (Allantic Puffin) 2 Species Fratercula arctiza (Allantic Puffin) 2 Species Histrionicus histrionicus (Harlequin Duck) 1 Species Phalarocrox carbo (Great Cormorant) 3 3 Species Pha			
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•	Species	Strongylocentrotus droebachiensis (Green Sea Urchin)	2

Habitat Grouping: Subtidal

Class	Gastropoda (Aquatic And Terrestrial Snails)	SGCN Category
Species	Arrhoges occidentalis (American Pelican Foot)	2
Species	Boreotrophon clathratus (Clathrate Trophon)	2
Species	Boreotrophon truncatus (Murex)	2
Species	Colus pygmaeus (Colus Snail)	2
Species	Ptychatractus ligatus (Spindle Shell)	2
Class	Holothuroidea (Sea Cucumbers)	SGCN Category
Species	Cucumaria frondosa (Orange-footed Sea Cucumber)	2
Species	Psolus fabricii (Psolus)	2
Species	Psolus phantapus (Psolus)	2
Species	Thyonidium drummondii (Sea Cucumber)	2
Class	Malacostraca (Crustaceans)	SGCN Category
Species	Lebbeus groenlandicus (Spiny Lebbeid Shrimp)	2
Species	Lebbeus polaris (Polar Lebbeid Shrimp)	2
Species	Pandalus borealis (Northern Shrimp)	1
Class	Mammalia (Mammals)	SGCN Category
Species	Balaenoptera borealis (Sei Whale)	2
Species	Balaenoptera musculus (Blue Whale)	2
Species	Balaenoptera physalus (Finback Whale)	2
Species	Eubalaena glacialis (North Atlantic Right Whale)	1
Species	Megaptera novaeangliae (Humpback Whale)	1
Species	Phocoena phocoena (Harbor Porpoise)	2
Species	Physeter macrocephalus (Sperm Whale)	2
Class	Merostomata (Horseshoe Crabs And Sea Scorpions)	SGCN Category
Species	Limulus polyphemus (Horseshoe Crab)	1
Class	Ophiuroidea (Brittle Stars)	SGCN Category
Species	Gorgonocephalus arcticus (Northern Basket Starfish)	2
Class	Reptilia (Reptiles)	SGCN Category
Species	Caretta caretta (Loggerhead Seaturtle)	2
Species	Chelonia mydas (Green Seaturtle)	2
Species	Dermochelys coriacea (Leatherback Seaturtle)	1
Species	Lepidochelys kempii (Kemp's Ridley Seaturtle)	2
Class	Rhynchonellata (Brachiopods)	SGCN Category
Species	Terebratulina septentrionalis (Lamp Shell)	2
abitat Stressors:		

Habitat-specific stressors are assigned to the Habitat Macrogroup(s) listed in the Habitat Grouping above. Habitat Macrogroup reports can be found in Maine's 2015 Wildlife Action Plan: Element 2, Table 2-3. Click on the Habitat Macrogroup of interest to launch a habitat based report summarizing relevant stressors and associated SGCN.

Habitat Grouping: Subtidal

Conservation Actions Assigned to this Habitat Grouping:

Conservation Action Category: Habitat Management Biological Priority: critical Type: new

Find ways to support culvert replacement in or near intertidal, subtidal, and tidal marsh habitats using best management

practices

Stressor(s) Addressed By This Conservation Action

Utility and Service Lines, Shipping Lanes, Roads and Railroads, Dams and Water Management-Use

Conservation Action Category: Habitat Management Biological Priority: critical

Encourage partnership projects among transportation agencies, utility companies, etc. to facilitate fish passage and maintain connectivity in or near subtidal, intertidal, and tidal marsh habitats especially in cases where structures have different purposes for different users

Stressor(s) Addressed By This Conservation Action

Dams and Water Management-Use, Roads and Railroads, Shipping Lanes, Utility and Service Lines

Conservation Action Category: Habitat Management Biological Priority: critical Type: on-going

Decommission remnant or unused roads and other structures in or near tidal marsh, intertidal, and subtidal habitats

Stressor(s) Addressed By This Conservation Action

Utility and Service Lines, Shipping Lanes, Roads and Railroads, Dams and Water Management-Use

Conservation Action Category: Habitat Management Biological Priority: high Type: on-going

Promote voluntary baywide (or scale of ecological relevance) coordination of shared resources and education addressing the impacts of fishing and harvesting aquatic resources on SGCN intertidal and subtidal habitats

Stressor(s) Addressed By This Conservation Action

Fishing and Harvesting of Aquatic Resources

Conservation Action Category: Habitat Management Biological Priority: high Type: on-going

Restore and improve conservation management at state and municipal levels to reduce impacts of effluents and wastewater or intertidal and subtidal SGCN habitats

Stressor(s) Addressed By This Conservation Action

Industrial and Military Effluents, Agricultural and Forestry Effluents, Domestic and Urban Waste Water

Conservation Action Category: Habitat Management Biological Priority: high Type: on-going

Mitigate coastal acidification of intertidal and subtidal habitats using strategies similar to those for reducing effects of effluents/wastewater

Stressor(s) Addressed By This Conservation Action

Temperature Extremes, Habitat Shifting or Alteration, Storms and Flooding

Conservation Action Category: Habitat Management Biological Priority: high Type: on-going

Model effects of sea level rise and other climate change factors on subtidal SGCN patterns including physiology, migration patterns, and trophic changes

Stressor(s) Addressed By This Conservation Action

Temperature Extremes, Habitat Shifting or Alteration, Storms and Flooding

Conservation Action Category: Habitat Management Biological Priority: high Type: on-going

Use technology to reduce discharge of wastewater and effluents into intertidal and subtidal SGCN habitats

Stressor(s) Addressed By This Conservation Action

Domestic and Urban Waste Water, Agricultural and Forestry Effluents, Industrial and Military Effluents

Conservation Action Category: Habitat Management Biological Priority: high Type: on-going Assess new aquaculture sites for potential positive, benign, or negative species interactions with the surrounding habitat and

ecological systems

Report Date: January 13, 2016

Type: on-going

Habitat Grouping: Subtidal

Stressor(s) Addressed By This Conservation Action

Marine and Freshwater Aquaculture

Conservation Action Category: Habitat Management

Biological Priority: moderate

Type: new

Report Date: January 13, 2016

Expand research and pilot studies to test the efficacy of increasing pH of mudflats (e.g., using harvested shell waste) to restore more favorable habitat conditions for intertidal and subtidal SGCN

Stressor(s) Addressed By This Conservation Action

Fishing and Harvesting of Aquatic Resources

Conservation Action Category: Habitat Management

Biological Priority: moderate T

Type: new

Alter shipping lanes and dredging plans in intertidal and subtidal habitats to minimize biological and ecological impacts to SGCN

Stressor(s) Addressed By This Conservation Action

Agricultural and Forestry Effluents, Domestic and Urban Waste Water, Industrial and Military Effluents

Conservation Action Category: Habitat Management Biological Priority: moderate

Type: on-going

Conduct training and workshops to support knowledge of SGCN and their habitats

Stressor(s) Addressed By This Conservation Action

Recreational Activities

Conservation Action Category: Habitat Management

Biological Priority: moderate

Type: on-going

Improve response plans for industrial spills (e.g., oil spills) in intertidal and subtidal habitats and support research on oil dispersants and short and long term effect of oil spills

Stressor(s) Addressed By This Conservation Action

Industrial and Military Effluents, Agricultural and Forestry Effluents, Domestic and Urban Waste Water

Conservation Action

Category: Policy

Biological Priority: high

Type: new

Provide incentives for building Stream Smart structures and road crossings in or near intertidal, subtidal, and tidal marsh habitats that allow for changing environmental conditions such as sea level rise and increased flooding

Stressor(s) Addressed By This Conservation Action

Utility and Service Lines, Shipping Lanes, Roads and Railroads, Dams and Water Management-Use

Conservation Action

Category: Policy

Biological Priority: high

Type: on-going

Increase awareness about invasive species and problems following the introduction of invasive species in the shipping, transportation, and other industries to prevent introductions and spread of invasive species in intertidal and subtidal habitats

Stressor(s) Addressed By This Conservation Action

Viral-Prion-induced Diseases, Problematic Native Species-Diseases, Invasive Non-native-Alien Species-Diseases

Conservation Action

Category: Policy

Biological Priority: high

Type: on-going

Increase capacity for enforcement of current laws and regulations regarding proper infrastructure (e.g., roads, dams, utility lines, shipping lanes) construction, maintenance, water quality, and fish passage in tidal marsh, intertidal, and subtidal SGCN habitats

Stressor(s) Addressed By This Conservation Action

Dams and Water Management-Use, Roads and Railroads, Shipping Lanes, Utility and Service Lines

Conservation Action

Category: Policy

Biological Priority: high

Type: on-going

Time dredging projects in subtidal and tidal marsh habitats to minimize harm to SGCN based on migration and spawning cycles

Stressor(s) Addressed By This Conservation Action

Mining and Quarrying, Shipping Lanes

Conservation Action C

Category: Policy

Biological Priority: moderate

Type: new

Explore value of utilizing conservation leases to limit uses/stresses in intertidal and subtidal habitats

Habitat Grouping: Subtidal

Stressor(s) Addressed By This Conservation Action

Fishing and Harvesting of Aquatic Resources

Conservation Action Category: Policy

Biological Priority: moderate

Type: on-going

Type: on-going

Report Date: January 13, 2016

Expand existing education and incentive programs for lawn care companies, homeowners, and municipalities to reduce wastewater and effluent inputs and effects on intertidal and subtidal SGCN habitats

Stressor(s) Addressed By This Conservation Action

Industrial and Military Effluents, Agricultural and Forestry Effluents, Domestic and Urban Waste Water

Conservation Action Category: Policy **Biological Priority:** moderate Type: on-going

Increase capacity for municipal planning to reduce wastewater and effluent effects on intertidal and subtidal SGCN habitats while also accounting for future environmental change

Stressor(s) Addressed By This Conservation Action

Industrial and Military Effluents, Agricultural and Forestry Effluents, Domestic and Urban Waste Water

Conservation Action Category: Policy **Biological Priority:** moderate Type: on-going

Increase enforcement for dumping/litter/gear abandonment in intertidal and subtidal habitats

Stressor(s) Addressed By This Conservation Action

Garbage and Solid Waste

Conservation Action

Conservation Action Category: Policy **Biological Priority:** moderate Type: on-going

Support communities with retrofitting existing effluent and wastewater treatment infrastructure and plan for sea level rise by providing economic incentives and education

Stressor(s) Addressed By This Conservation Action

Industrial and Military Effluents, Agricultural and Forestry Effluents, Domestic and Urban Waste Water

Biological Priority: moderate

Provide stewardship/conservation incentives to harvesters working in intertidal and subtidal SGCN habitats

Stressor(s) Addressed By This Conservation Action

Category: Policy

Fishing and Harvesting of Aquatic Resources

Biological Priority: moderate **Conservation Action** Category: Policy Type: on-going

Site shipping lanes and dredging projects to minimize negative impacts to intertidal and subtidal SGCN and their habitats

Stressor(s) Addressed By This Conservation Action

Mining and Quarrying, Shipping Lanes

Category: Public Outreach **Conservation Action Biological Priority:** critical Type: on-going

Continue/expand litter reduction programs/public education in intertidal and subtidal habitats

Stressor(s) Addressed By This Conservation Action

Garbage and Solid Waste

Conservation Action Category: Public Outreach Biological Priority: high Type: new

Improve knowledge of effects of renewable energy on intertidal and subtidal SGCN habitats

Stressor(s) Addressed By This Conservation Action

Renewable Energy

Category: Public Outreach **Biological Priority:** high **Conservation Action** Type: on-going

Continue/expand marine debris recovery programs in intertidal and subtidal habitats and education to fishermen

Stressor(s) Addressed By This Conservation Action

Garbage and Solid Waste

Habitat Grouping: Subtidal

Conservation Action Category: Public Outreach

Biological Priority: high

Type: on-going

Report Date: January 13, 2016

Provide education and outreach through local meetings and trainings (e.g., Stream Smart) on techniques, problems and ecological effects of dams, roads, shipping lanes, and utility corridors on intertidal, subtidal, and tidal marsh habitats

Stressor(s) Addressed By This Conservation Action

Utility and Service Lines, Shipping Lanes, Roads and Railroads, Dams and Water Management-Use

Conservation Action

Category: Public Outreach

Biological Priority: high

Type: on-going

Increase outreach and education on preventing the spread of invasive/problematic species and diseases in intertidal, subtidal, and tidal marsh habitats

Stressor(s) Addressed By This Conservation Action

Problematic Native Species-Diseases, Invasive Non-native-Alien Species-Diseases, Viral-Prion-induced Diseases

Conservation Action

Category: Public Outreach

Biological Priority: high

Type: on-going

Increase leadership opportunities and education regarding climate change mitigation and adaptation in intertidal and subtidal habitats

Stressor(s) Addressed By This Conservation Action

Habitat Shifting or Alteration, Storms and Flooding, Temperature Extremes

Conservation Action

Category: Public Outreach

Biological Priority: high

Type: on-going

Increase capacity for local engagement in data collection, surveys, and management of intertidal and subtidal SGCN and their habitats that fosters partnerships among harvesters, citizens, scientists, and managers

Stressor(s) Addressed By This Conservation Action

Fishing and Harvesting of Aquatic Resources

Conservation Action

Category: Public Outreach

Biological Priority: moderate

Type: new

Develop best management practices for maintaining energy facilities in intertidal and subtidal habitats

Stressor(s) Addressed By This Conservation Action

Renewable Energy

Conservation Action

Category: Public Outreach

Biological Priority: moderate

Type: new

Expand existing education and research at the management level to improve understanding and management ability to reduce wastewater and effluent inputs and effects into intertidal and subtidal SGCN habitats

Stressor(s) Addressed By This Conservation Action

Industrial and Military Effluents, Agricultural and Forestry Effluents, Domestic and Urban Waste Water

Conservation Action

Category: Public Outreach

Biological Priority: moderate

Type: on-going

Continue partnerships between anglers, guides, scientists, and managers to collect biological information and catch data to use in population assessments and identifying species habitat use and behavior

Stressor(s) Addressed By This Conservation Action

Recreational Activities

Conservation Action

Category: Public Outreach

Biological Priority: moderate

Type: on-going

Provide outreach and education to recreational marine harvesters on proper catch and release methods to minimize trauma (including barotrauma)

Stressor(s) Addressed By This Conservation Action

Recreational Activities

Conservation Action

Category: Public Outreach

Biological Priority: moderate

Type: on-going

Continue to work with recreational marine charter captains to collect accurate data that can be used to assess SGCN populations

Habitat Grouping: Subtidal

Stressor(s) Addressed By This Conservation Action

Recreational Activities

Conservation Action Category: Public Outreach

Biological Priority: moderate

Type: on-going

Report Date: January 13, 2016

Promote use of more targeted fishing techniques in intertidal and subtidal habitats (e.g., bycatch reduction and not disturbing habitat) by encouraging discussions between harvesters, ecologists, and managers

Stressor(s) Addressed By This Conservation Action

Fishing and Harvesting of Aquatic Resources

Conservation Action Category: Research

Biological Priority: critical

Type: new

Create a coastal acidification budget to determine which factors (i.e. point, non-point source pollution, atmospheric CO2, etc.) are most important in driving acidification nearshore in intertidal and subtidal habitats

Stressor(s) Addressed By This Conservation Action

Temperature Extremes, Habitat Shifting or Alteration, Storms and Flooding

Conservation Action Category: Research Biological Priority: critical

Type: new

Identify local intertidal and subtidal ocean acidification and sea surface temperature refuges and resilient species

Stressor(s) Addressed By This Conservation Action

Temperature Extremes, Habitat Shifting or Alteration, Storms and Flooding

Conservation Action Category: Research Biological Priority: critical

Type: new

Investigate offshore changes in circulation patterns, plankton distribution and abundance, and other bio-chemical and physical processes

Stressor(s) Addressed By This Conservation Action

Temperature Extremes, Habitat Shifting or Alteration, Storms and Flooding

Conservation Action Category: Research Biological Pri

Biological Priority: critical

Type: on-going

Improve mapping of intertidal and subtidal habitats and include information on SGCN movements

Stressor(s) Addressed By This Conservation Action

Renewable Energy

Conservation Action Category: Research

Biological Priority: high

Type: new

Encourage installation of lower cost SGCN-friendly infrastructure in and near subtidal, intertidal, and tidal marsh habitats through technology development and transfer of technology

Stressor(s) Addressed By This Conservation Action

Utility and Service Lines, Shipping Lanes, Roads and Railroads, Dams and Water Management-Use

Conservation Action Category: Research Biological Priority: high

Develop better understanding of climate change effects on intertidal and subtidal SGCN and ecosystem interactions

Stressor(s) Addressed By This Conservation Action

Lack of knowledge

Conservation Action Category: Research

Biological Priority: high

Type: on-going

Type: on-going

Improve understanding of distribution, biology, and ecology of non-commercially harvested intertidal and subtidal SGCN

Stressor(s) Addressed By This Conservation Action

Lack of knowledge

Conservation Action Category: Research

Biological Priority: high

Type: on-going

Improve knowledge of intertidal and subtidal SGCN habitat use and migration patterns to better inform renewable energy project siting

Stressor(s) Addressed By This Conservation Action

Renewable Energy

Habitat Grouping: Subtidal

Conservation Action Category: Research **Biological Priority:** high Type: on-going

Improve modeling (at local and Gulf of Maine scales) of sea level rise effects on intertidal and subtidal SGCN habitats and

incorporate into planning

Stressor(s) Addressed By This Conservation Action

Temperature Extremes, Habitat Shifting or Alteration, Storms and Flooding

Category: Research Biological Priority: high Type: on-going **Conservation Action**

Research the feasibility of diversifying Maine's marine fisheries of SGCN in response to changing environmental variables

Stressor(s) Addressed By This Conservation Action

Storms and Flooding, Habitat Shifting or Alteration, Temperature Extremes

Biological Priority: moderate **Category:** Research Type: on-going **Conservation Action** Determine accuracy of commercial harvester- and dealer-reported landings and recreational fishing reports and surveys for

target intertidal and subtidal SGCN and bycatch

Stressor(s) Addressed By This Conservation Action

Fishing and Harvesting of Aquatic Resources

Category: Research **Biological Priority:** moderate **Conservation Action** Type: on-going

Improve understanding of intertidal and subtidal SGCN distributions especially in regards to ecosystem interactions and predator prey relationships

Stressor(s) Addressed By This Conservation Action

Lack of knowledge

Biological Priority: moderate **Conservation Action** Category: Research Type: on-going

Improve understanding of effects of energy development on bird and other SGCN use of migration corridors in intertidal and subtidal habitats

Stressor(s) Addressed By This Conservation Action

Renewable Energy

Conservation Action Category: Research **Biological Priority:** moderate Type: on-going

Continue to work with industry to minimize escape of aquaculture-raised individuals

Stressor(s) Addressed By This Conservation Action

Marine and Freshwater Aquaculture

Conservation Action Category: Research **Biological Priority:** moderate Type: on-going

Investigate the effects of various harvesting practices on intertidal and subtidal SGCN habitats and on trophic and ecological processes

Stressor(s) Addressed By This Conservation Action

Fishing and Harvesting of Aquatic Resources

Category: Survey and Monitoring **Biological Priority:** high **Conservation Action Type:** on-going

Develop monitoring systems and rapid response plans to prevent the colonization of invasive/problematic species and diseases in intertidal, subtidal, and tidal marsh habitats

Stressor(s) Addressed By This Conservation Action

Invasive Non-native-Alien Species-Diseases, Problematic Native Species-Diseases, Viral-Prion-induced Diseases

Conservation Action Category: Survey and Monitoring **Biological Priority:** high Type: on-going

Continue monitoring potential and active aquaculture sites with a focus on SGCN and important habitats

Stressor(s) Addressed By This Conservation Action

Fishing and Harvesting of Aquatic Resources

Report Date: January 13, 2016

Habitat Grouping: Subtidal

Conservation Action

Category: Survey and Monitoring

Biological Priority: moderate

Type: on-going

Report Date: January 13, 2016

Continue to improve rapid response for oil and gas spills in intertidal and subtidal habitats, including state agencies efforts to have most up-to-date species maps, rapid response protocols in place, and regular scenario training

Stressor(s) Addressed By This Conservation Action

Mining and Quarrying, Shipping Lanes

Conservation Action Category: Survey and Monitoring

Biological Priority: moderate

Type: on-going

Develop coastal focus areas encompassing marine habitats with high concentrations of SGCN using improved species occurrence maps

Stressor(s) Addressed By This Conservation Action

Fishing and Harvesting of Aquatic Resources

Conservation Action Category: Survey and Monitoring

Biological Priority: moderate

Type: on-going

Expand surveys of recreational fishing efforts to include SGCN that are not targeted in current survey efforts

Stressor(s) Addressed By This Conservation Action

Recreational Activities

Conservation Action

Category: Survey and Monitoring

Biological Priority: moderate

Type: on-going

More frequently update intertidal and subtidal SGCN habitat maps and compare to historical maps to monitor changes in distribution over time

Stressor(s) Addressed By This Conservation Action

Fishing and Harvesting of Aquatic Resources

Species Conservation Actions:

Conservation actions that may benefit species associated with this habitat grouping can be found in Maine's 2015 Wildlife Action Plan: Element 1, Table 1-3. Click on the species of interest to launch a species based report summarizing relevant conservation actions and associated habitats.

The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.